- 17. (New) The optical element according to claim 16, wherein a concentration of the fluorine in the layer or layers of silica is not less than 0.1 mol% nor more than 10 mol%.
- 18. (New) The optical element according to claim 16, wherein said concentration of the fluorine is not less than 1 mol%.
- 19. (New) The optical element according to claim 16, wherein a refractive index of the layer or layers of silica for F_2 laser light is 1.60 to 1.80.
- 20. (New) The optical element according to claim 16, wherein said film further comprises a layer of a material selected from the group consisting of MgF₂, LiF, and Na₃AlF₆.
- 21. (New) The optical element according to claim 16, wherein said element is comprised of fluorite.
- 22./ (New) The optical element according to claim 16, wherein said element is comprised of silica containing fluorine.
- 23. (New) The optical element according to claim 16, wherein said film is an antireflection coating.